



**BRÄU**  

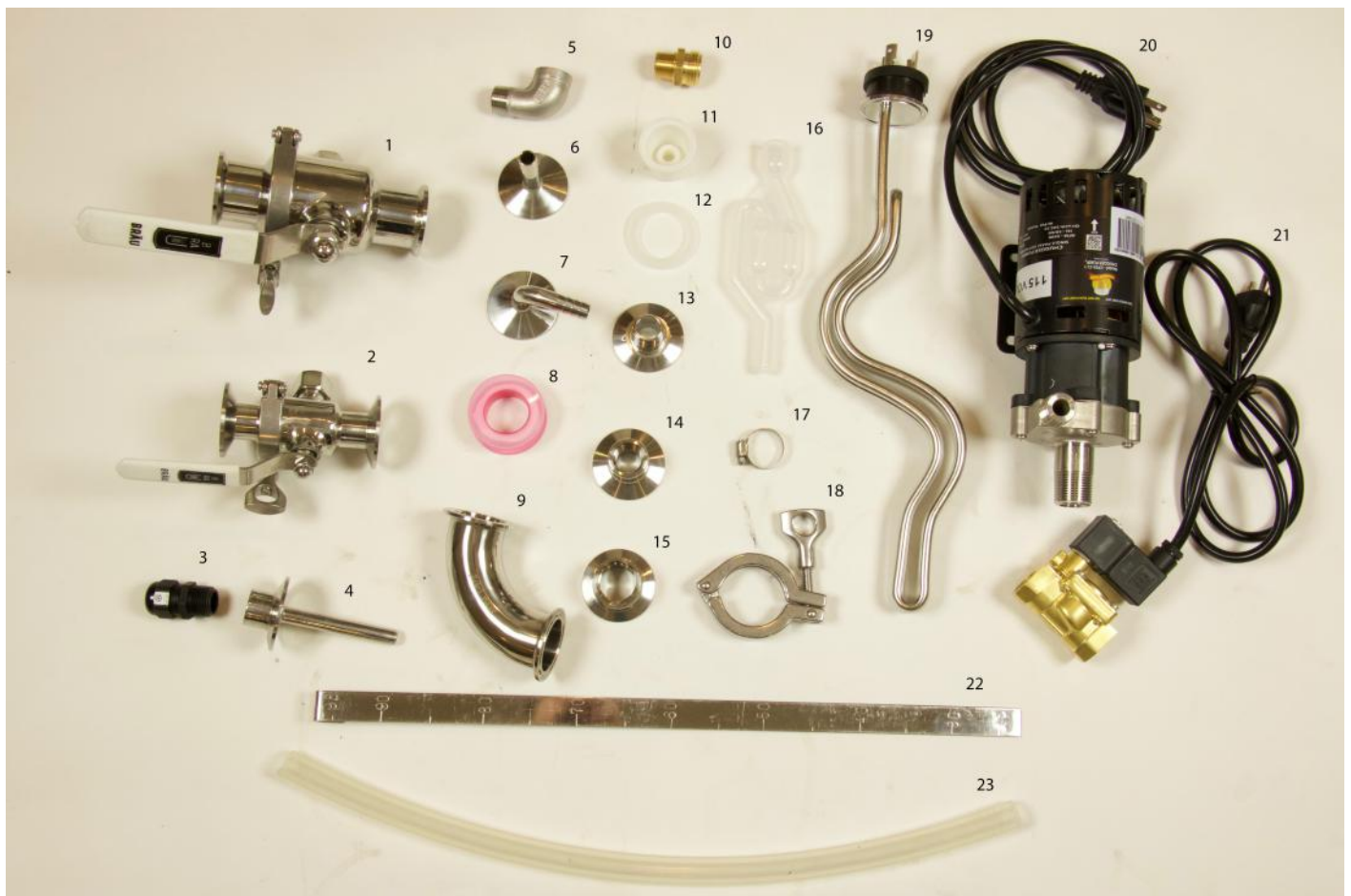
---

**S U P P L Y**

# **Unibräu Pro 45L/100L Manual**

[www.brausupply.com](http://www.brausupply.com)

## The Unibräu Pro ships with following components:



1. Take-apart 1 ½" ball valve (1)
2. Take-apart ¾" ball valve (2)
3. 1/2" Male NPT cable gland (1)
4. Thermowell (1)
5. Street elbow (1)
6. Tri-clover hose barb (1)
7. Tri-clover hose barb with 90° bend (4)
8. Thread seal tape (1)
9. Tri-clover 90° elbow (1)
10. Male garden hose to ½" Male NPT adapter (1)
11. Rubber stopper (1)
12. Tri Clover silicone gasket (15)
13. Tri-clover - ½" Male NPT (1)
14. Tri-clover - ½" Female NPT (1)
15. Tri-clover - ¾" Female NPT (1)
16. S-Bubble airlock (1)
17. Hose clamp (4)
18. Tri-clover clamp (15)
19. 5500W stainless heating element with L6-30P twist lock connector (1)
20. Chugger Pump (1)
21. Water solenoid valve (1)
22. Stainless level guide (1)
23. ½" silicone tubing

## The following items are required for assembly but are not included:

- 2 adjustable wrenches
- Tubing cutter or utility knife
- Approximately 10 feet of garden hose

Note: The system plugs into either a common 120V household plug/240V Dryer plug depending on your choice of temperature controller. Due to the power requirement of the element(s), ensure that the brew unit and its controller are plugged into an isolated circuit. If you have purchased the double element 120V system, you must ensure that the elements are plugged into separate isolated circuits. It is recommended that a ground fault interrupter (GFCI) receptacle be used. For 240V system, it is highly advisable to have a qualified electrician install a GFCI breaker into your household electrical panel.

**Warning - Shock Hazard!**

This is an all-electric system. Electrical shocks can cause serious injury or death. A ground fault interrupter (GFCI) is highly recommended for use with this system. Always unplug the device before cleaning the unit. Never put your hand inside the brewer while it is plugged into the power supply.

By purchasing this product, you agree to accept all liabilities for any damage or injury that may occur through the use of this equipment.

# Assembly Instructions

## 1. Preparing the Chugger pump

Required parts:

- Tri Clover - 1/2" Female NPT
- Tri Clover - 3/4" Female NPT
- Thread seal tape
- Chugger pump
- Take-apart 3/4" ball valve
- Tri-clover silicone gasket (1)
- Tri-clover clamp (1)

1. Wrap the threads of the unlabelled "IN" port of the Chugger pump with thread seal tape in a clockwise direction.



2. Thread the tri-clover - 3/4" Female NPT onto the now taped unlabelled "IN" port of the Chugger pump.



3. Wrap the threads of the labelled "OUT" port of the Chugger pump with thread seal tape in a clockwise direction.



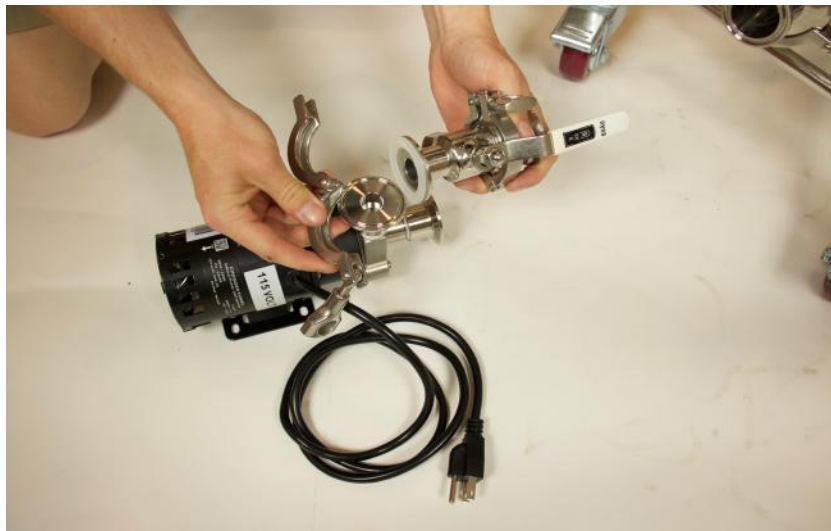
4. Thread the tri-clover - 3/4" Female NPT onto the now taped "OUT" port of the Chugger pump.



5. Tighten both connections with a wrench.



6. Using a silicone gasket and a tri-clover clamp, attach the take-apart  $\frac{3}{4}$ " ball valve to the "OUT" port of the Chugger pump.

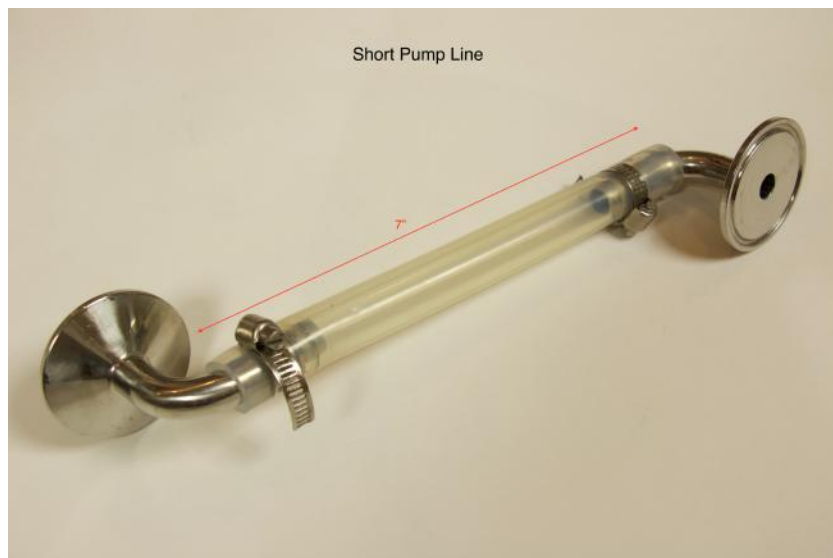


## 2. Preparing the silicone pumping lines.

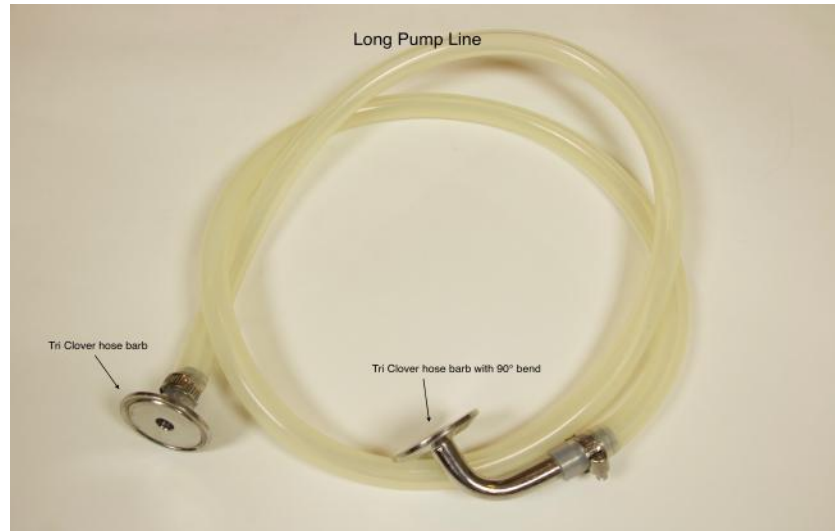
Required parts:

- 1/2" silicone tubing
- Tri-clover hose barb with 90° bend (4)
- Tri-clover hose barb
- Tri-clover - 1/2" Male NPT

1. Cut the silicone tubing into three sections
  1. Short pump line: 7"
  2. Recirculation line: 12"
  3. Long pump line: remaining length of tubing
2. For the short pump line, for each end of the tubing, slide a hose clamp over the tubing and insert a tri-clover hose barb with 90° bend.



3. For the long pump line, slide a hose clamp over each end of the tubing and insert a tri-clover hose barb with 90° bend into one end and a tri-clover hose barb into the other end.



4. For all four connections, tighten the hose clamps with a screwdriver.



5. The 12" recirculation hose section will be used in later section.



### 3. Preparing the Fermentor

Required parts:

- Take-apart 1 1/2" ball valve (1)
- Take-apart 3/4" ball valve (1)
- Thermowell
- Tri Clover clamp (8)
- Tri Clover silicone gasket (8)
- 5500W stainless heating element
- 1/2" Male NPT cable gland
- Tri Clover 90° elbow

1. Using a tri-clover clamp and silicone gasket, attach the tri-clover 90° elbow to the port on the bottom of the fermentor.



2. To the bottom of the tri-clover 90° elbow, attach the take-apart 1 1/2" ball valve with a silicone gasket and a tri-clover clamp.



- Using silicone gaskets and tri-clover clamps, attach the short pump line to the tri-clover 90° elbow and the “IN” port of the Chugger pump.



- Insert the heating element into the horizontal port and secure with a gasket and tri-clover clamp.

Note: In order for the element to fit through the port, it will need to be rotated while inserting.



- Using a silicone gasket and a tri-clover clamp, attach a take-apart 3/4" ball valve to one of the free ports on the fermenter.



- Thread the cable gland into the thermowell. Then using a silicone gasket and a tri-clover clamp, attach the thermowell to the last open port on the fermenter.



## 4. Preparing the Mash Basket

Required parts:

- 12" section of silicone tubing
- Tri-clover clamp (3)
- Tri-clover silicone gasket (3)
- Tri-clover hose barb with 90° bend (1)

1. With a silicone gasket and a tri-clover clamp, attach a tri-clover hose barb with 90° bend to the port on the inside of the mash basket.



2. Slide the 12" section of silicone tubing over the hose barb. No hose clamp is required.



- Using silicone gaskets and tri-clover clamps, attach the long pump line to the outside port of the mash basket and the Chugger pump/ball valve assembly.

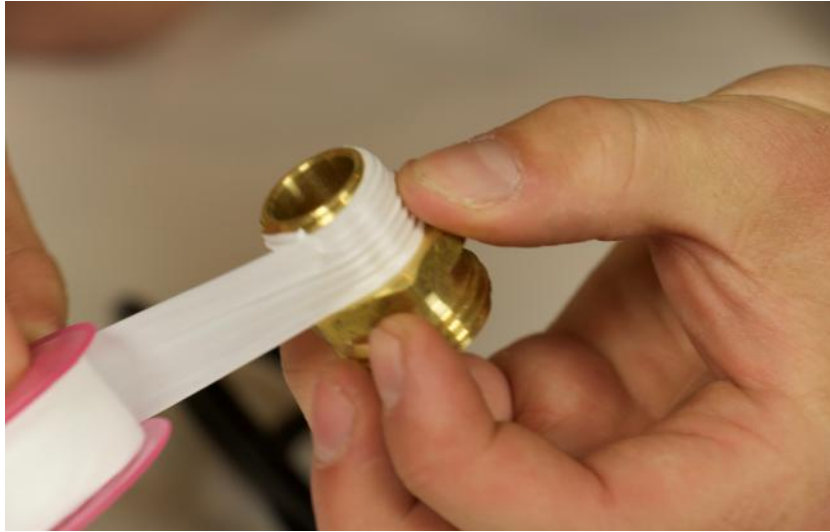


## 5. Preparing the water solenoid valve

Required parts:

- Male garden hose to 1/2" Male NPT adapter
- Street elbow
- Tri Clover - 1/2" Male NPT

1. Wrap the Male NPT threads of the male garden hose to 1/2" Male NPT adapter with thread seal tape.



2. Thread Male NPT end of the adapter into the "IN" port of the water solenoid valve and tighten with a wrench.



3. Wrap the Male NPT threads of the Tri Clover - 1/2" Male NPT with thread seal tape.



4. Thread the taped Tri Clover - 1/2" Male NPT from step 3 into the female end of the street elbow.



5. In a clockwise direction, tape the male end of the street elbow with thread seal tape and thread it into the "OUT" port of the water solenoid valve.



6. Tighten with a wrench





## 6. Preparing the Cooling Coil

Required parts:

- Take-apart ¾" ball valve (from Chugger pump assembly)
- Tri-clover clamp (5)
- Tri-clover silicone gasket (5)
- Tri-clover hose barb with 90° bend
- Water solenoid valve assembly
- Rubber stopper
- S-Bubble Airlock

1. With silicone gaskets and tri-clover clamps, attach the cooling coil to the small diameter ports on the underside of the lid.



2. Remove the mash basket and lower the cooling coil/lid assembly into the fermenter.



3. With a silicone gasket and tri clover clamp, attach the water solenoid assembly to one of the elevated/small diameter ports on the top of the lid.



4. Using a silicone gasket and a tri-clover clamp, attach a tri-clover hose barb with 90° bend to the port opposite to the water solenoid valve assembly.



- Using a hose clamp, attach a section of garden hose to the hose barb and tighten with a screwdriver.



- Using a silicone gasket and a tri clover clamp, attach the take-apart  $\frac{3}{4}$ " ball valve to one of the remaining ports on the lid.



7. Insert the rubber stopper and S-Bubble airlock into the last free port on the lid.



8. To seal the unit during fermentation, position the large lid clamp around the top of the lid and fermenter and clamp shut



Before you begin brewing:

Add water to the system to check for leaks and tighten tri-clover clamps as required. Note, the clamps from the ball valves are not interchangeable with the other tri-clover clamps.

**Warning – Do not plug the heating element cable in unless the heating element is fully submerged in water! Doing so will burn the element out.**

You should now be ready to start your very first brew!